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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/041,624		01/10/2002	Takeyoshi Isogai	111709	5208	
25944	7590	06/14/2004	•	EXAMINER		
		OGE, PLC	NGUYEN, DONGHAI D			
	P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
	,			3729		
				DATE MAILED: 06/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	ction Summary Pa	rt of Paper No./Mail Date 20	040607			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date U.S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					
Attachment(s)						
See the attached detailed Office action for a list	or the certified copies not receive					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
	2. Certified copies of the priority documents have been received in Application No					
1. Certified copies of the priority document	s have been received.					
a) ☑ All b) ☐ Some * c) ☐ None of:	,	V / V/				
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
Priority under 35 U.S.C. § 119						
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO-15	52.			
Replacement drawing sheet(s) including the correct			121(d).			
10) Ine drawing(s) filed on 12 April 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 12 April 2004 is/are: a) accepted or b) objected to by the Examiner.						
Application Papers						
	·					
8) Claim(s) are subject to restriction and/o	r election requirement.					
6)⊠ Claim(s) <u>1-6,11 and 12</u> is/are rejected. 7)⊠ Claim(s) <u>7-10</u> is/are objected to.						
5) Claim(s) is/are allowed.						
4a) Of the above claim(s) <u>13-21</u> is/are withdraw	vn from consideration.					
4) Claim(s) 1-21 is/are pending in the application						
Disposition of Claims						
closed in accordance with the practice under E	±x раπе Quayle, 1935 С.D. 11, 45	3 O.G. 213.				
3) Since this application is in condition for allowa			its is			
	action is non-final.		•• • •			
1) Responsive to communication(s) filed on 12 A	· · · · · · · · · · · · · · · · · · ·					
Status						
Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from c, cause the application to become ABANDONEI	s will be considered timely. the mailing date of this commun D (35 U.S.C. § 133).	ication.			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.	Y IS SET TO EXPIRE 3 MONTH(S) FROM				
Period for Reply						
The MAILING DATE of this communication app	Donghai D. Nguyen	3729	3			
Office Action Summary	Examiner	Art Unit				
Office Action Summer	10/041,624	ISOGAI ET AL.				
	Application No.	Applicant(s)	l			

Art Unit: 3729

DETAILED ACTION

Response to Amendment

1. The proposed reply filed on April 12, 2004 has been entered.

Election/Restrictions

2. This application contains claims 13-21 drawn to an invention nonelected with traverse in the reply filed on 12/15/2003. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Araya et al.
 This rejection is set forth in prior Office Action, mailed on Feb. 09, 2004.
- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

Application/Control Number: 10/041,624 Page 3

Art Unit: 3729

subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-6 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Kawada.

The applied reference has a common Assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

This rejection is set forth in prior Office Action, mailed on Feb. 09, 2004.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kawada.

 This rejection is set forth in prior Office Action, mailed on Feb. 09, 2004.

Allowable Subject Matter

9. Claims 7-10 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 3729

This reason for the indication of allowable subject matter is set forth in prior Office Action, mailed on Feb. 09, 2004.

Response to Arguments

10. Applicant's arguments filed April 12, 2004 have been fully considered but they are not persuasive.

Applicants argue that Araya and Kawada neither teach nor suggest detecting position of the rotation axis of the suction nozzle on the position-detecting plane including a component-mounting surface of the circuit board is not persuasive. Araya and Kawada teach to use the reference mark (Araya's 172; Kawada's 100) on the surface of the circuit board (Araya's 62; Kawada's 16) for accurately mounting the chip to mounted position on the circuit board (Araya's Col. 9, lines 34-47; Kawada's Abstract). Furthermore, Applicants have only recited the position-detecting plane to include the mounting surface. Applicants have not defined the plane to include a part of the component-mounting surface, or the entire surface of the mounting surface, or only part of the plane that intercept with the surface of the component-mounting surface. In addition, there is no limitation in the claims that preclude the step of detecting the position of the nozzle in advance.

Applicants also argue that Araya's center of the nozzle cap may not mean the rotation axis of the suction nozzle is not persuasive. Araya discloses the center 0 of the nozzle and the rotation direction of the chip at the end of the nozzle (Col. 10, lines 36-38). Therefore the center of the nozzle cap is the rotation axis since the nozzle spinning on its center or axis.

Art Unit: 3729

In regard to the ownership of this application and Kawada, Applicants need to submit evidences that this application was owned by or subject to an obligation of assignment to, a common assignee.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghai D. Nguyen whose telephone number is (703) 305-7859. The examiner can normally be reached on Monday-Friday (9:00-6:00).

Art Unit: 3729

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter D. Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PETER VO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700